




Device and method for detecting the phase and amplitude of electromagnetic waves

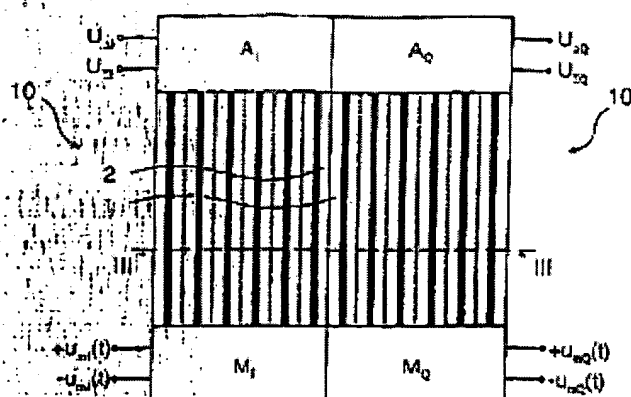
Patent number: US6777659
Publication date: 2004-08-17
Inventor: SCHWARTE RUDOLF [DE]
Applicant: SCHWARTE RUDOLF [DE]
Classification:
 - international: H01L27/00; H01L27/146
 - european: G01J9/00
Application number: US20000700439 20001113
Priority number(s): DE19981021974 19980518; WO1999DE01436 19990510

Also published as:

 WO9960629 (A1)
 EP1080500 (A1)
 DE19821974 (A1)

Abstract of US6777659

The presented invention concerns an apparatus for detecting the phase and amplitude of electromagnetic waves, comprising at least two modulation photogates which are sensitive to the electromagnetic waves, and accumulating gates which are associated with the modulation photogates and which are not photosensitive, and electrical connections for the modulation photogates and the accumulation gates so that the latter can be connected to a reading-out device and the former can be connected to a modulating device which increases and reduces the potential of the modulation photogates relative to each other and relative to the preferably constant potential of the accumulation gates corresponding to a desired modulation function. It is proposed in accordance with the invention that a plurality of modulation photogates and accumulation gates are provided in the form of long narrow parallel strips which group-wise form a PMD-pixel.



Data supplied from the esp@cenet database - Worldwide

USPS EXPRESS MAIL
 EV 511 024 531 US
 MARCH 11 2005